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APPLICANT : JAPAN SYNTHETIC RUBBER CO LTD;

INVENTOR : ISHIKAWA SATOSHI;

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TITLE : WATER-BASE INK

ABSTRACT : PURPOSE: To obtain a water-base ink which has a suitable quick-dryability and is excellent in blur resistance, distinctness, and durability by maintaining the average particle size, the amt. of coarse particles, and the surface tension of the ink each within a specified range.

CONSTITUTION: This ink is a water-base dispersion having a surface tension of 30mN/m or higher, a content of coarse particles with particle sizes of 1 $\mu$ m or higher of 0.1wt.% or lower, and an average particle size of 0.01-0.5 $\mu$ m. Polymer particles contained in the ink are obtd. by polymerizing a monomer mixture comprising 5-95wt.% cross-linking monomer having at least two polymerizable double bonds in the molecule (e.g. divinylbenzene), 2-50wt.% hydrophilic monomer (e.g. acrylic acid), and 1-93wt.% other copolymerizable monomer (e.g. styrene) or by condensing 0.1-900 pts.wt. organosilane compd. (e.g. tetramethoxysilane) in the presence of 100 pts.wt. seed particles (e.g. polystyrene).

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